

FIREBASE AS DATABASE

1. Installation

```
npm install firebase --save
```

2. Firebase setup

```
import firebase from 'firebase';

const config = {
  apiKey: 'AIzaSyCThEHv6y4Nkp1QZrGawsGMVleTF1H_jDQ',
  authDomain: 'reactjs-auth.firebaseio.com',
  databaseURL: 'https://reactjs-auth.firebaseio.com',
  projectId: 'reactjs-auth',
  storageBucket: 'reactjs-auth.appspot.com',
  messagingSenderId: '203876394688'
};

firebase.initializeApp(config);
```

3. Firebase set root data

```
const firebaseRef = firebase.database().ref();
firebaseRef.set({
  username: 'Pho',
  note: {
    subject: 'Hoc Tap',
    content: 'Nop do an cuoi khoa'
  }
});
```



4. Firebase refs

```
firebaseRef.set({
  username: 'Pho',
  note: {
    subject: 'Hoc Tap',
    content: 'Nop do an cuoi khoa'
  }
});

firebaseRef.child('username');
firebaseRef.child('note').child('content');
firebaseRef.child('notes/subject');
```

You can assign ref for a child

```
const aRef = firebaseRef.child('someRef');
```

5. Updating a child

If you call set, everything will be override. When you want to update a prop of child, just call update method.

```
firebaseRef.update({ username: 'vanpho93' })
  .then(() => console.log('Updating successfully'))
  .catch(err => console.log('Got an error', err));
```

You can call updating with a child as well

```
firebaseRef.child('note').update({ subject: 'Hoc NodeJS' })
```



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Or like this

```
firebaseRef.update({  
  username: 'PhoNguyen',  
  'note/subject': 'Hoc lap trinh'  
});
```

6. Remove a child (ref)

You can set its value to null or call remove

```
firebaseRef.child('someRef').remove();
```

7. Fetching data from a ref

```
aRef.once('value')  
  .then(snapshot => console.log(snapshot.val()));
```

8. Subscribe and unsubscribe a ref

Subscribe a ref

```
firebaseRef.on('value', snapshot => console.log(snapshot.val()));
```



Unsubscribe a ref

```
firebaseRef.off();  
firebaseRef.off(listener);
```

9. Working with array of items

```
notesRef.on('child_added', snapshot => {  
  |   console.log(snapshot.id, snapshot.val());  
});  
notesRef.on('child_changed', snapshot => {  
  |   console.log(snapshot.id, snapshot.val());  
});  
  
notesRef.on('child_removed', snapshot => {  
  |   console.log(snapshot.id, snapshot.val());  
});  
  
notesRef.push({  
  |   text: 'Xin Chao cac ban'  
})  
.then(( ) => console.log('THANH_CONG'))  
.catch(( ) => console.log('THAT_BAI'));
```